

November 24, 2020

Version 3

MIL Comes On with DTC P0430 or P0430 with P030X, P219A, P219B (With Software Update)

Supersedes 19-072, dated December 20, 2019, to revise the information highlighted in **yellow**.

This bulletin replaces 17-036, MIL Comes On with DTC P0430 (Front Bank Catalyst System Efficiency Below Threshold [Bank 2]).

AFFECTED VEHICLES

Year	Model	Trim Level	VIN Range
2017	Pilot	2WD	5FNYP5...HB000001 thru 5FNYP5...HB028097
		AWD	5FNYP6...HB000001 thru 5FNYP6...HB058228
2017	Ridgeline	ALL	ALL
2018	Odyssey	ALL	5FNRL6...JB000001 thru 5FNRL6...JB014844

REVISION SUMMARY

Under AFFECTED VEHICLES and SOFTWARE INFORMATION, 2016 Pilot has been removed. For 2016 Pilot with these symptoms, see service bulletin 20-100, *Warranty Extension: MIL Comes On with DTC P0420/P0430, P030x, and/or P219A/B (With Software Update)*.

SYMPTOM

The MIL comes on with DTC P0430 (front bank catalyst system efficiency below threshold [bank 2]). Additionally, one or more of the following DTCs may also be stored:

- P030X (misfire)
- P219A (air-fuel ratio variation of cylinder [bank 1, rear bank])
- P219B (air-fuel ratio variation of cylinder [bank 2, front bank])

POSSIBLE CAUSE

The PCM software may misinterpret sensor inputs as a deteriorated catalytic converter. Additionally, debris from the fuel injector machining process or high pressure fuel pump can cause internal wear or clogging in the injector.

CUSTOMER INFORMATION: The information in this bulletin is intended for use only by skilled technicians who have the proper tools, equipment, and training to correctly and safely maintain your vehicle. These procedures should not be attempted by "do-it-yourselfers," and you should not assume this bulletin applies to your vehicle, or that your vehicle has the condition described. To determine whether this information applies, contact an authorized Honda automobile dealer.

CORRECTIVE ACTION

- **P0430 only:** Update software, and do the cylinder AF test. If the test fails, replace the fuel injectors.

NOTES

- If the vehicle has a 9-speed A/T, check to make sure the A/T software is up to date. The A/T software may have been updated in a previous bulletin (17-036). If the A/T software is up to date, do the cylinder A/F test and replace the fuel injectors only if the test fails.
- If the vehicle has a 6 or 10-speed A/T, you do not need to check the A/T software.

- **P0430 and any combination of P030X, P219A, or P219B:** Update the software, and replace the fuel injectors.

NOTES

- If the vehicle has a 9-speed A/T, check to make sure the A/T software is up to date. The A/T software may have been updated in a previous bulletin (17-036). If the A/T software is up to date, replace the fuel injectors.
- If the vehicle has a 6 or 10-speed A/T, you do not need to check the A/T software.

WARRANTY CLAIM INFORMATION

The normal warranty applies.

Template IDs were not included because there are many variations in the repair procedure. Manually enter the warranty information claim.

Odyssey

Operation Number	Description	Flat Rate Time	Defect Code	Symptom Code	Failed Part Number
1255F8	Update the PGM-FI software.	0.2 hr	03214	03203	37805-RLV-315
A	Do the cylinder A/F test.	0.1 hr			
B	Replace the fuel injectors.	2.6 hr			
C	Confirm and update 9-speed A/T software.	0.1 hr			

Pilot

Operation Number	Description	Flat Rate Time	Defect Code	Symptom Code	Failed Part Number
1255F8	Update the PGM-FI software.	0.2 hr	03214	03203	37805-RLV-315
A	Do the cylinder A/F test.	0.1 hr			
B	Replace the fuel injectors.	2.5 hr			
C	Confirm and update 9-speed A/T software.	0.1 hr			

Ridgeline

Operation Number	Description	Flat Rate Time	Defect Code	Symptom Code	Failed Part Number
1255F8	Update the PGM-FI software.	0.2 hr	03214	03203	37805-RLV-315
A	Do the cylinder A/F test.	0.1 hr			
B	Replace the fuel injectors.	2.2 hr			

PARTS INFORMATION

Part Name	Part Number	Quantity
Fuel Injector Set	16010-RLV-315	1
Fuel Joint Pipe Set	16012-R9P-315	1
Front Gasket	17055-R9P-A01	1
Rear Gasket	17065-R9P-A01	1
Intake Manifold Gasket	17101-RLV-A01	6
Throttle Body Gasket	17102-RLV-A01	1
EGR Seal	17103-RLV-A01	2
EGR Pipe Gasket A	18716-RB0-G01	1

SOFTWARE INFORMATION

NOTE

Unnecessary or incorrect repairs resulting from a failure to update the i-HDS are not covered under warranty.

Before beginning the repair, make sure all diagnostic and reprogramming software are updated as listed.

i-HDS Software Version	1.005.038 or later
J2534 Rewrite Software Information	
PC Application Version	1.1.0.6 or later
Database Update	25-NOV-2019 or later

Do only the update listed in this service bulletin.

You cannot apply the updates with the MVCI as a standalone tool. To update the software you must use the MVCI or the DST-i interface in conjunction with the J2534 Rewrite PC application on the i-HDS.

For more information about updating the i-HDS, the MVCI, and vehicle systems, refer to service bulletin 01-023, *Updating Control Units/Modules*.

Year/Model	Vehicle System	Program ID (or later)	Program P/N (or later)
2017 Pilot LX 2WD	PGM-FI	LVC030	37805-RLV-C03
2017 Pilot EX 2WD	PGM-FI		
2017 Pilot EX-L 2WD	PGM-FI		
2017 Pilot EX-L (NAVI) 2WD	PGM-FI		
2017 Pilot EX-L (RES) 2WD	PGM-FI		
2017 Pilot LX 4WD	PGM-FI	LVC130	37805-RLV-C13
2017 Pilot EX 4WD	PGM-FI		
2017 Pilot EX-L 4WD	PGM-FI		
2017 Pilot EX-L (NAVI) 4WD	PGM-FI		
2017 Pilot EX-L (RES) 4WD	PGM-FI		
2017 Pilot EX (Sensing) 2WD	PGM-FI	LVC230	37805-RLV-C23
2017 Pilot EX-L (Sensing) 2WD	PGM-FI		
2017 Pilot EX (Sensing) 4WD	PGM-FI	LVC330	37805-RLV-C33
2017 Pilot EX-L (Sensing) 4WD	PGM-FI		

Year/Model	Vehicle System	Program ID (or later)	Program P/N (or later)
2017 Pilot *Touring (9A/T) 2WD	PGM-FI	LVC430	37805-RLV-C43
2017 Pilot *Touring (9A/T) 4WD	PGM-FI	LVC530	37805-RLV-C53
2017 Pilot *Elite (9A/T) 4WD	PGM-FI		
2018 Odyssey *LX	PGM-FI	MRA040	37805-5MR-A04
2018 Odyssey *EX	PGM-FI	MRA250	37805-5MR-A25
2018 Odyssey *EX-L	PGM-FI		
2018 Odyssey *EX-L (NAVI, RES)	PGM-FI		
2018 Odyssey Touring	PGM-FI	MRA750	37805-5MR-A75
2018 Odyssey Elite	PGM-FI		
2017 Ridgeline RTL 4WD	PGM-FI	MJA560	37805-5MJ-A56
2017 Ridgeline RTL-T 4WD	PGM-FI		
2017 Ridgeline Sport 4WD	PGM-FI		
2017 Ridgeline Black 4WD	PGM-FI	MJA760	37805-5MJ-A76
2017 Ridgeline RTL-E 4WD	PGM-FI		
2017 Ridgeline RT 2WD	PGM-FI	MJA060	37805-5MJ-A06
2017 Ridgeline RTL 2WD	PGM-FI		
2017 Ridgeline RTL-T 2WD	PGM-FI		
2017 Ridgeline Sport 2WD	PGM-FI		

*Confirm the 9-speed A/T software is up to date.

REPAIR PROCEDURE

Software Update

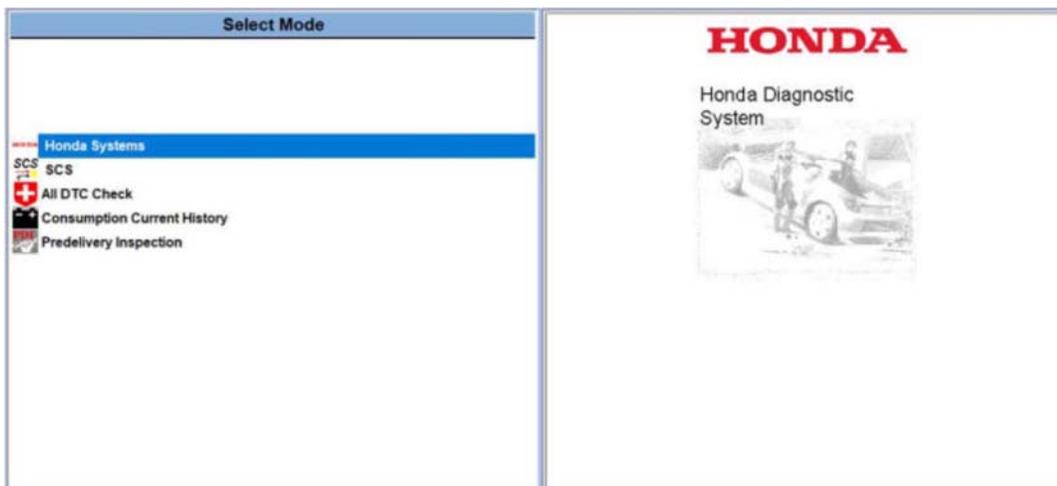
Update the PGM-FI software using the i-HDS J2534 rewrite software with the MVCI or DST-i. Refer to Service Bulletin 01-023, *Updating Control Units/Modules*.

NOTE

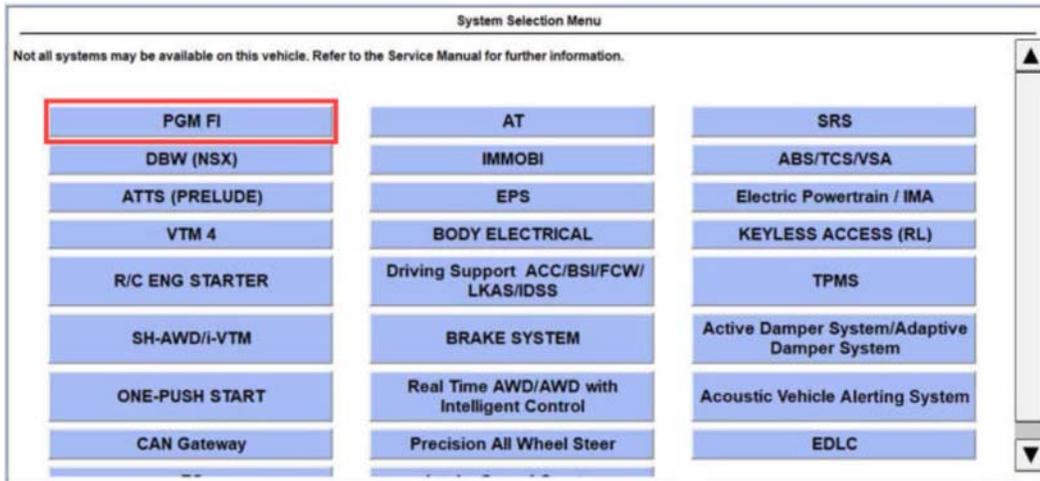
If the model you are working on has a 9-speed A/T, make sure the 9-speed A/T software is up to date.

Cylinder AF Test Procedure (HDS)

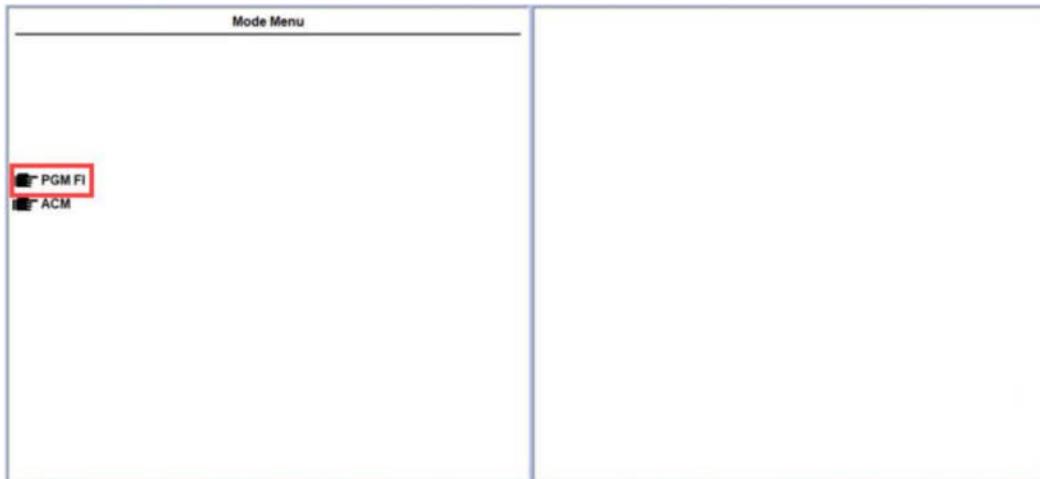
1. Select Honda Systems.



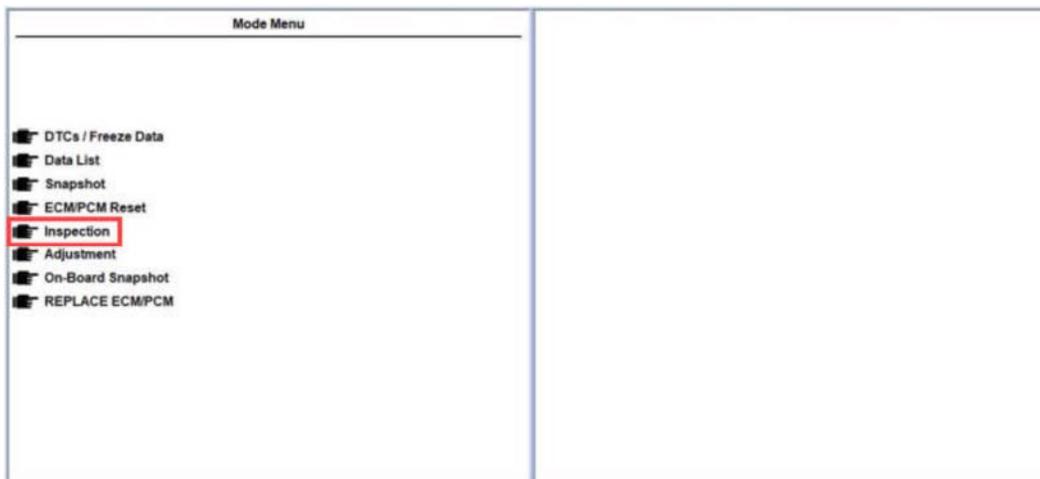
2. Select **PGM FI**.



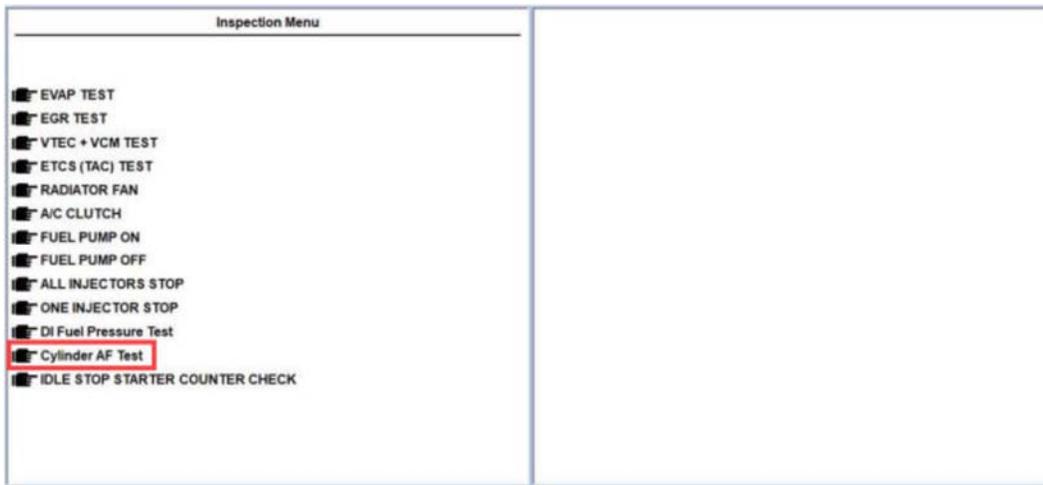
3. Select **PGM FI**.



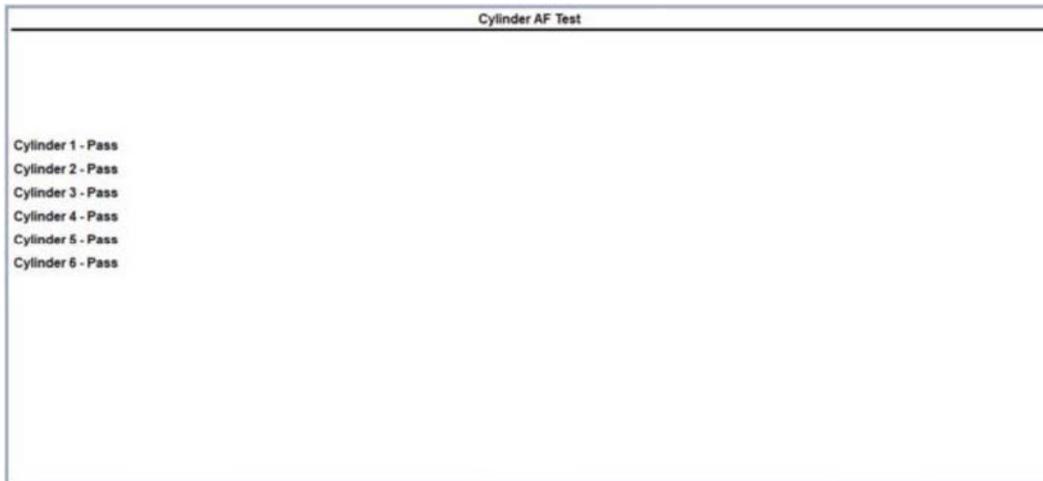
4. Select **Inspection**.



5. Select **Cylinder AF Test**.



6. Make sure all cylinders pass.



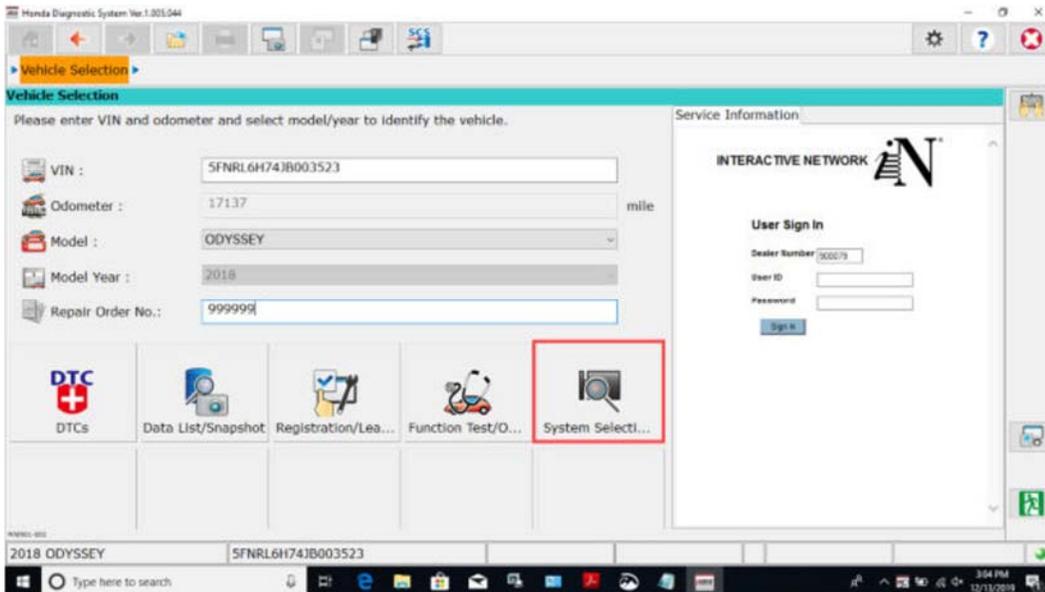
Did all cylinders pass?

Yes - The repair is complete.

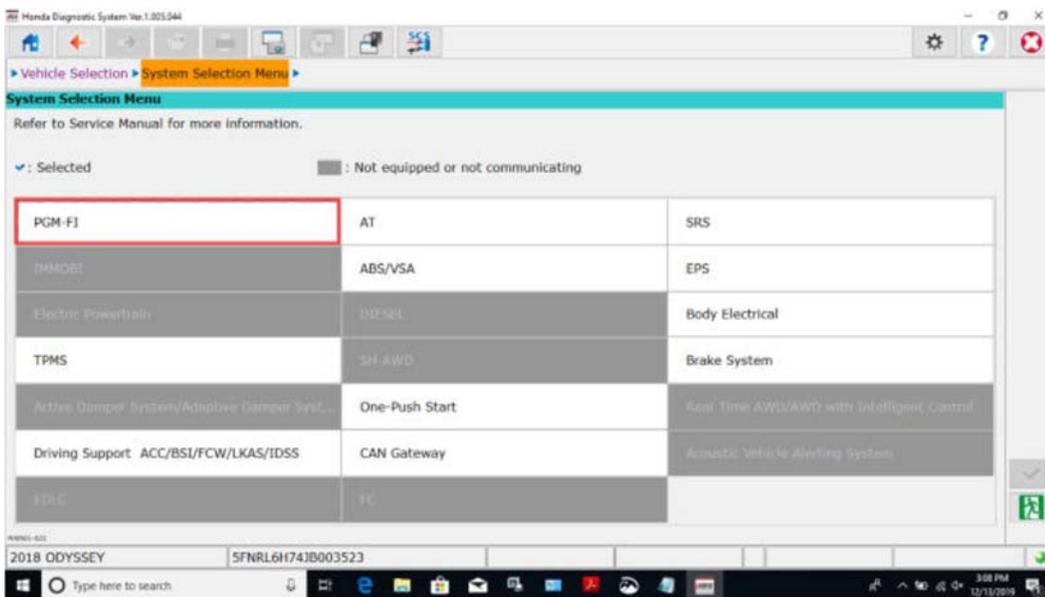
No - Go to Fuel Injector Replacement.

Cylinder AF Test Procedure (i-HDS)

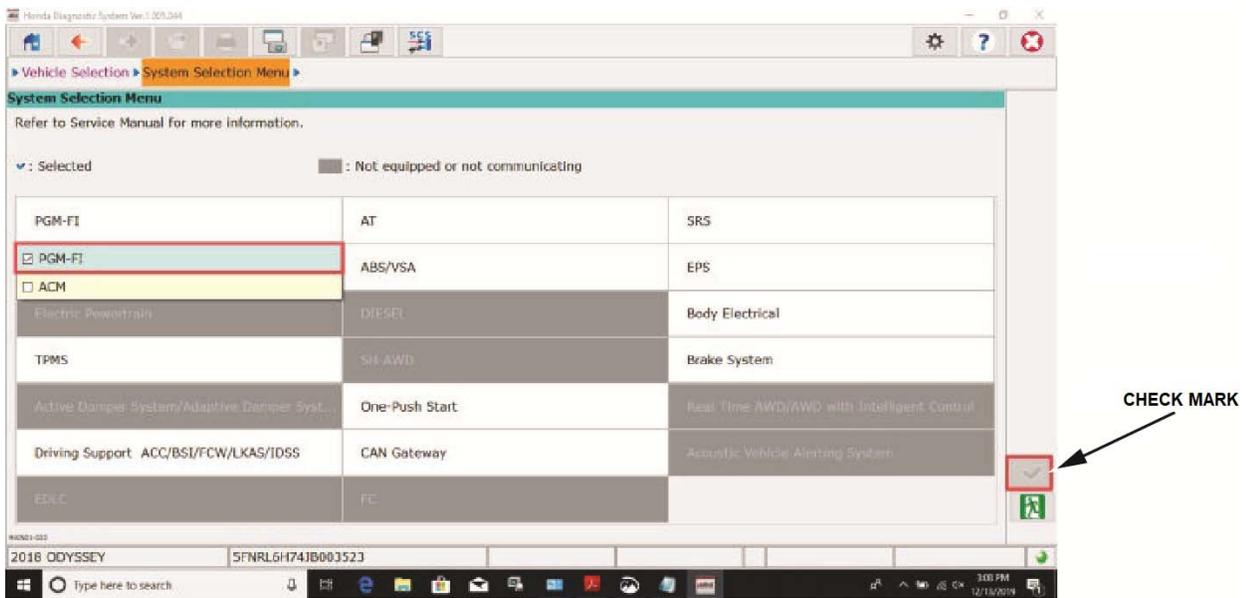
1. Select System Selection.



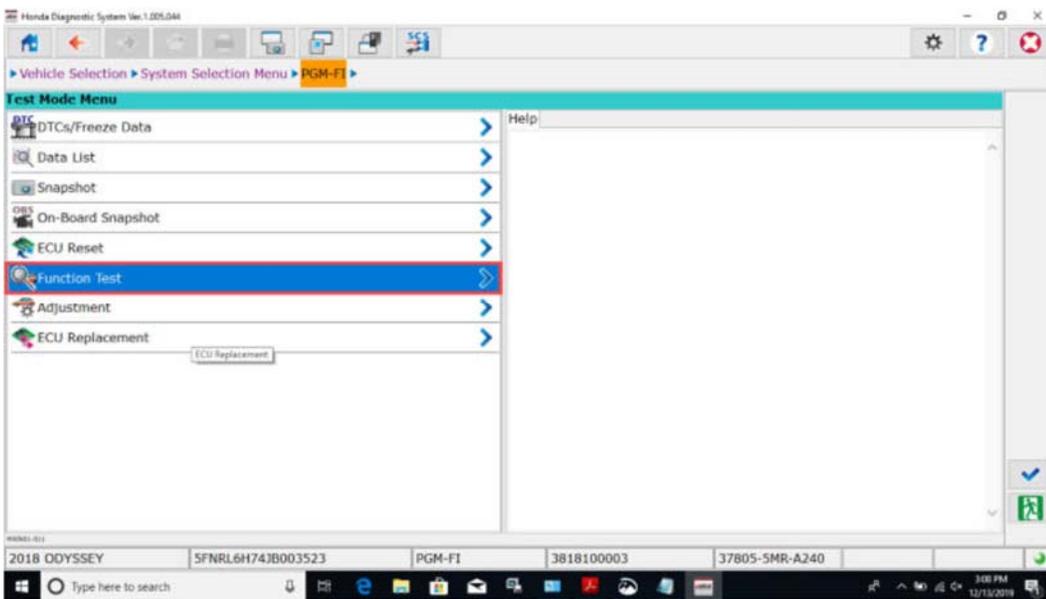
2. Select PGM FI.



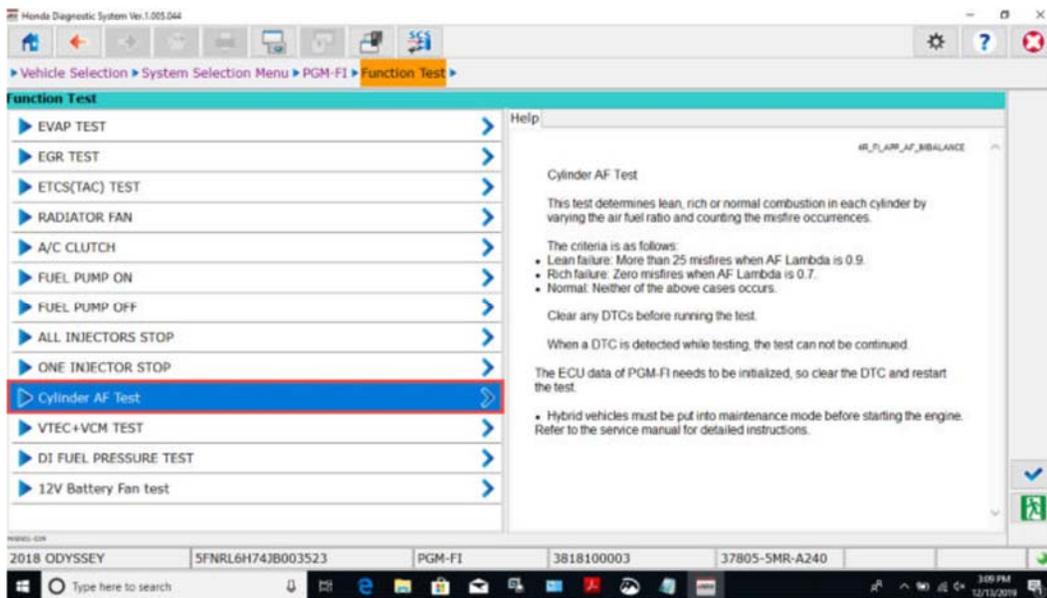
3. Select **PGM FI**, then select the check mark.



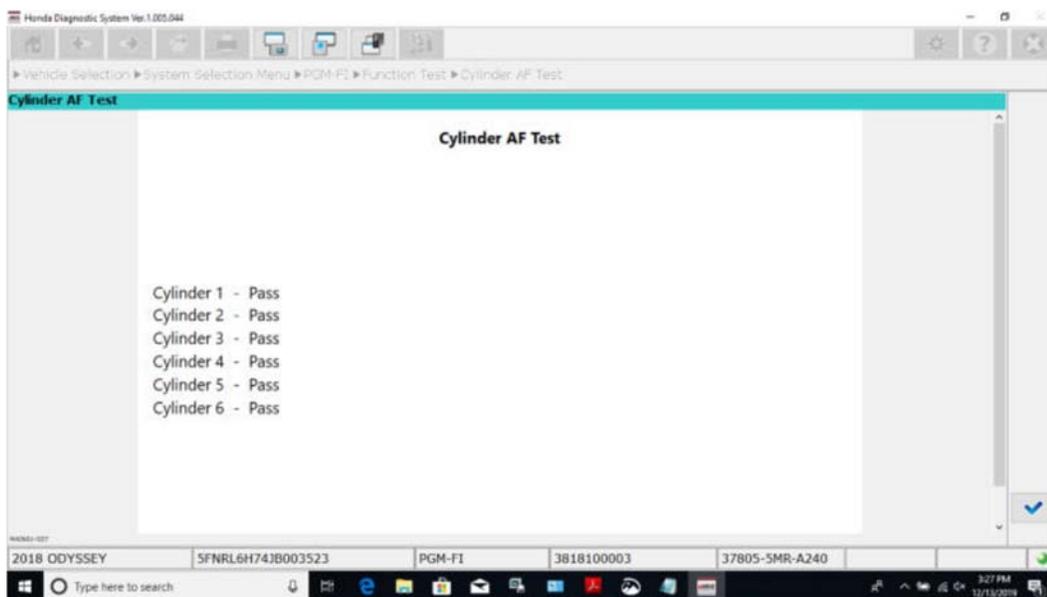
4. Select **Function Test**.



5. Select Cylinder AF Test.



6. Make sure all cylinders pass.



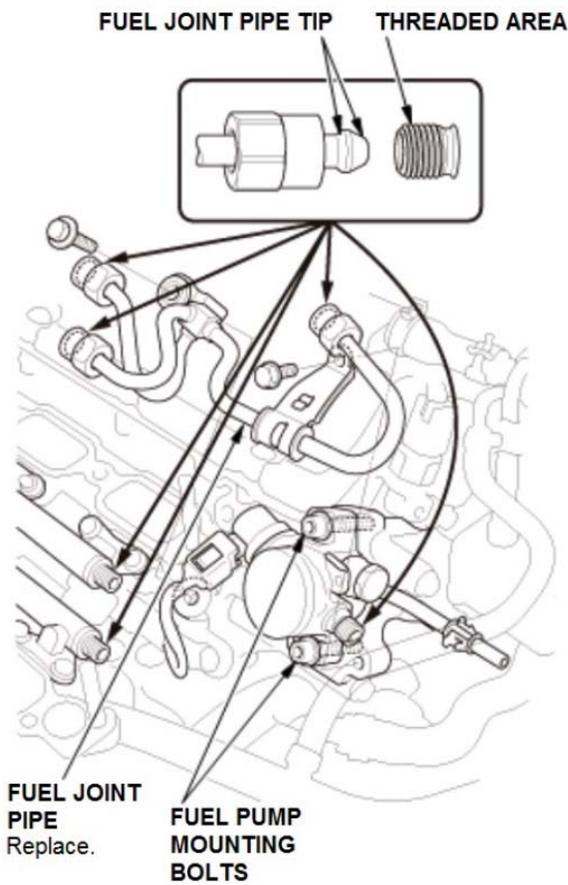
Did all cylinders pass?

Yes - The repair is complete.

No - Go to Fuel Injector Replacement.

Fuel Injector Replacement

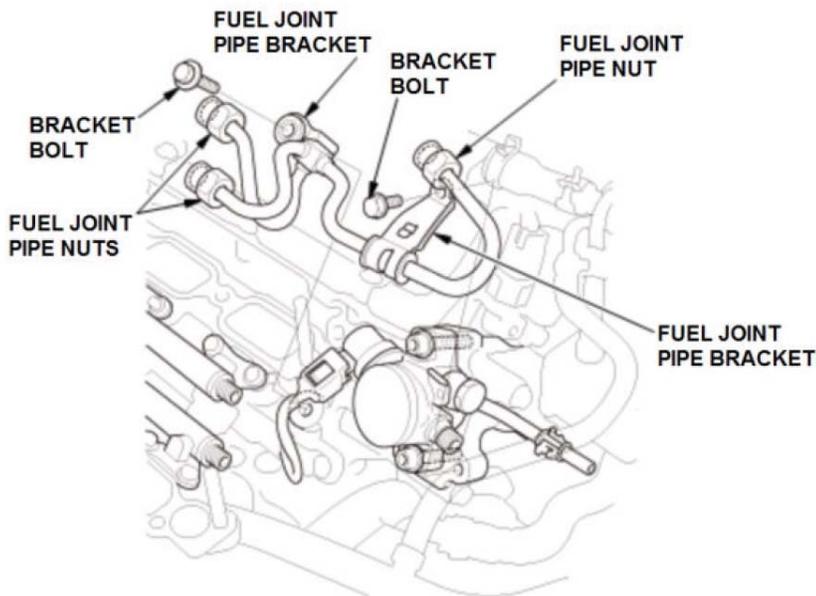
1. Relieve the fuel pressure.
2. Disconnect the negative terminal from the 12-volt battery.
3. Remove the intake manifold and intake manifold base.
4. Remove the high pressure fuel pump cover.
5. Remove the fuel rail cover.
6. Remove the fuel joint pipe.
7. Remove the fuel rail and fuel injectors.
8. Replace the fuel injectors in the fuel rail.
9. Install the fuel rail and new fuel injectors into the cylinder head.
10. Lubricate the tips of the new fuel joint pipe with polyethylene glycol included in the fuel joint pipe kit.
11. Lubricate the threaded areas of the fuel rails and high pressure fuel pump with polyethylene glycol.



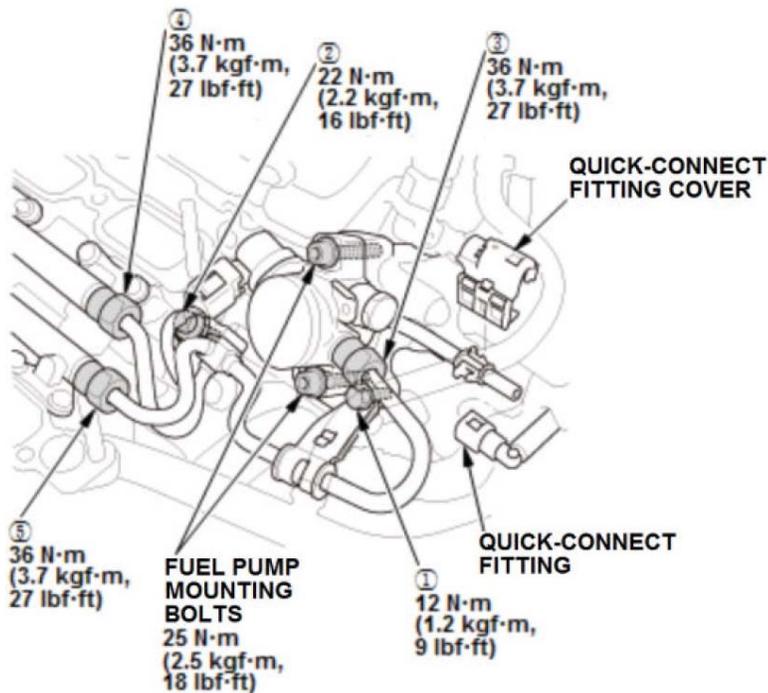
NOTES

- Do not reuse the fuel joint pipe. Failure to install a new fuel joint pipe will cause fuel leaks.
- Before you install the new fuel joint pipe, loosen the fuel pump mounting bolts.

12. Tighten the fuel joint pipe nuts by hand until the tips of the fuel joint pipe are seated on the fuel rails and the high pressure fuel pump.



13. Loosely install the bracket bolts to secure the new fuel joint pipe to the cylinder head.
14. Tighten the fuel pump mounting bolts to **25 N·m (18 lb-ft)**.



15. Tighten the fuel joint pipe bracket bolts to **12 N·m (9 lb-ft)** and **22 N·m (16 lb-ft)** in the order shown.
16. Tighten the fuel joint pipe nuts to **36 N·m (27 lb-ft)** in the order shown.

NOTES

- A crowfoot-type special tool increases the torque applied by the torque wrench. Refer to Torque Specifications in SIS for details on how to recalculate the torque wrench setting.
- Failure to tighten the fuel joint pipe nuts to the proper torque will cause a fuel leak.

17. Connect the quick-connect fitting and install the quick-connect fitting cover.
18. Connect the negative terminal to the 12-volt battery.
19. Check for fuel leaks.
20. Install the fuel rail cover.
21. Install the high pressure fuel pump cover.
22. Install the intake manifold base and intake manifold.
23. Do an all DTC check, and clear DTCs from all systems.

END